



JAMES A. NOYES, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

*"To Enrich Lives Through Effective and Caring Service"*

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IN REPLY PLEASE  
REFER TO FILE:

**PJ-2**

April 1, 2004

The Honorable Board of Supervisors  
County of Los Angeles  
383 Kenneth Hahn Hall of Administration  
500 West Temple Street  
Los Angeles, CA 90012

Dear Supervisors:

**LAC+USC MEDICAL CENTER REPLACEMENT PROJECT  
APPROVAL OF CHANGE ORDERS  
SPECS. 6550; C.P. 70787  
SUPERVISORIAL DISTRICT 1  
4 VOTES**

**JOINT RECOMMENDATION WITH THE CHIEF ADMINISTRATIVE OFFICER THAT  
YOUR BOARD:**

1. Approve and authorize the Director of Public Works to execute a change order to Contract PW-12641 with McCarthy/Clark/Hunt, a Joint Venture, for the LAC+USC Medical Center Replacement Project, C.P. 70787, for modifications to the exterior maintenance system for the Diagnostic and Treatment building for a not to exceed amount of \$213,500.
2. Approve and authorize the Director of Public Works to execute a change order to Contract PW-12641 with McCarthy/Clark/Hunt, a Joint Venture, for the LAC+USC Medical Center Replacement Project, C.P. 70787, for additional construction costs associated with substituting a high-intensity linear accelerator for the medium-intensity linear accelerator for a not to exceed amount of \$139,700.
3. Approve and authorize the Director of Public Works to execute a change order to Contract PW-12641 with McCarthy/Clark/Hunt, a Joint Venture, for the LAC+USC Medical Center Replacement Project, C.P. 70787, for additional steel

support framing in the electrical vault within the Central Plant building for the not to exceed aggregate amount of \$170,592.

**REASON AND SCOPE: RECOMMENDATION 1**

Unforeseen Condition	<input type="checkbox"/>	Regulatory Agency Requirement	<input checked="" type="checkbox"/>
Drawing Coordination	<input type="checkbox"/>	Previously Approved Scope Change	<input type="checkbox"/>
Errors and Omissions	<input checked="" type="checkbox"/>		

The design of the Diagnostic and Treatment building includes an exterior maintenance system to clean or repair the building exterior. The contract documents show a davit arm system with a reach of 6 feet 6 inches. During review of the contractor's submittal for this system, we discovered that several locations on the Diagnostic and Treatment building needed a reach of at least 11 feet 6 inches. When the system was designed, California Occupational Safety and Health Administration regulations allowed these systems to be extended to a maximum reach of 12 feet 6 inches. However, during the interim period between jurisdictional approval and contract award, Cal/OSHA amended these regulations to only allow a maximum reach of 8 feet 6 inches. Because of an initial oversight by the architect and Cal/OSHA's amendment to previous code requirements, the davit arms and their supports need to be redesigned at these locations.

The direct cost to add the redesigned outrigger system, including the corresponding structural revisions, is \$213,500. This work is within the scope of the project, and Public Works and the Chief Administrative Office have reviewed this matter as well as the potential cost impact with the Project Advisory Committee. The contractor has informed Public Works there is no critical path delay to construction completion as a result of this change.

**REASON AND SCOPE: RECOMMENDATION 2**

Unforeseen Condition	<input type="checkbox"/>	Regulatory Agency Requirement	<input type="checkbox"/>
Drawing Coordination	<input type="checkbox"/>	Previously Approved Scope Change	<input checked="" type="checkbox"/>
Errors and Omissions	<input type="checkbox"/>		

On June 3, 2003, your Board approved the substitution of a high-intensity linear accelerator instead of a medium-intensity linear accelerator at an estimated total cost not to exceed \$818,345, including \$555,000 for medical equipment cost, \$63,845 for architectural design fees, \$198,000 for construction costs, and \$1,500 in miscellaneous permitting expenditures. In addition, your Board authorized the Director of Public Works to execute a change order to modify the facility housing the linear accelerator for an amount not to exceed \$198,000.

Since we cannot commence work on out-of-scope changes without prior authority, the initial authorization of this change was based on cost estimates prepared without having complete design plans. Upon completion of design changes, we were able to thoroughly evaluate the cost associated with the construction changes. After review of the completed drawings and discussions with MCH, it was determined that the cost of the work exceeded Public Works' rough order of magnitude cost estimate of \$198,000 by \$139,700. The level of detail provided in the completed drawings identified additional work not included in the conceptual design, including additional radiation shielding, specially treated polyethylene door shielding, and union-required mobilization and travel costs for the radiation shielding subcontractor. These details encompassed modifications of over 30 drawings.

Other previously reported costs for the linear accelerator change, including additional medical equipment costs, architectural design fees, and miscellaneous permitting expenditures, are within current Board-approved amounts. This additional construction cost will increase the total cost of this change order from \$818,345 to \$958,045. The Project Advisory Committee reviewed and concurred with this recommendation on March 18, 2004.

**REASON AND SCOPE: RECOMMENDATION 3**

Unforeseen Condition	<input type="checkbox"/>	Regulatory Agency Requirement	<input checked="" type="checkbox"/>
Drawing Coordination	<input type="checkbox"/>	Previously Approved Scope Change	<input type="checkbox"/>
Errors and Omissions	<input type="checkbox"/>		

The construction drawings include a vault for City of Los Angeles Department of Water and Power to install its permanent power equipment for the new hospital. However, Water and Power did not provide its requirements for sizes and support framing in time to be included in the bid documents and, therefore, revised drawings were prepared following award of the construction contract. This work is considered to be within the scope of the project, and Public Works and the Chief Administrative Office have reviewed this matter as well as the potential cost impact with the Project Advisory Committee.

**BACKGROUND: RECOMMENDATION 1**

During the submittal process in January 2004, the requirement for a long-reach exterior maintenance system capable of reaching 11 feet 6 inches on the north and south sides of the Diagnostic and Treatment building was discovered. The contract documents depict a portable davit arm system with a maximum reach of 6 feet 6 inches. Through a series of meetings from January 15, 2004, to February 5, 2004, which included Public Works, the architect, and the contractor, four alternate systems were proposed. The most effective alternate was the portable dual pedestal outrigger arm system having a negotiated cost of \$213,500. Public Works issued a proceed order to the contractor on February 23, 2004, for the not to exceed amount of \$29,000 so we would not incur critical path delay. The proceed order was issued under delegated authority and directs the steel subcontractor to make minor revisions to the primary structural steel in locations where the new mounting pedestals will be located.

**BACKGROUND: RECOMMENDATION 2**

A supplemental agreement for redesign of the linear accelerator rooms was executed on June 9, 2003, for the not to exceed amount of \$63,845 with HOK/LBL Associated Architects. To maintain construction progress, a proceed order was issued to MCH on June 9, 2003, in the amount of \$8,465 for changes to the wall footings of the linear accelerator rooms. A second proceed order was issued in the amount of \$102,800 on September 29, 2003, for construction of remaining structural and architectural changes. On November 10, 2003, complete drawings and a request for quotation were issued to

MCH to provide final pricing for all construction changes associated with the linear accelerator rooms, including architectural and structural work that had been started based on preliminary drawings and remaining mechanical, electrical, and plumbing revisions. Public Works issued a third proceed order on February 9, 2004, in the amount of \$86,735 to continue with the work until a change order for the additional work is approved. Following cost negotiations, MCH submitted an acceptable quote on March 3, 2004, for an additional \$139,700, increasing the total value for this work to \$337,700.

### **BACKGROUND: RECOMMENDATION 3**

In the Central Plant building, a vault has been designed to house Water and Power's electrical equipment. Water and Power provided drawings indicating the load requirements to house the equipment within the vault too late for inclusion in the construction documents. After identifying the omission, the architect issued revised drawings for the structural steel incorporating Water and Power's requirements. Public Works has reviewed and negotiated the cost with MCH for the not to exceed amount of \$170,592 with no change to the current contract schedule.

In addition to changes required for the structural steel in the Water and Power vault, we will need to change some of the electrical conduits and wiring as a result of the drawings provided by Water and Power. At this time we do not know the extent or cost of these changes, and we will return to your Board for approval to execute a change order for this work.

### **CONTINGENCY BUDGET SUMMARY**

	CHANGE SUMMARY			
Board-Approved Contingency Budget	Executed Change Orders	Impact of This Action	Remaining Contingency Budget	Percentage Remaining
\$39,488,624	\$1,082,936	\$523,792	\$37,881,896	95.9%

The Honorable Board of Supervisors  
April 1, 2004  
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**CONCLUSION**

Please return one adopted copy of this letter to the Chief Administrative Office (Capital Projects Division) and Public Works.

Respectfully submitted,

JAMES A. NOYES  
Director of Public Works

DAVID E. JANSSEN  
Chief Administrative Officer

SB:cb

U:\pmdiadmin\Adrine\LAC+USC\Letters\Approval of Change Orders

cc: Chief Administrative Office (John Edmisten, Norm Braverman)  
Executive Office  
Department of Health Services (Fred Leaf, Azar Kattan)  
Project Advisory Committee (Nick Patsaouras, A. Redmond Doms, Jerry Epstein)